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marble quarries at West Rutland, to which they were taken in automobiles furnished through the courtesy of the Vermont Marble Company.

The great success of these field meetings was due not only to the region traversed, which is unusually interesting geologically and historically, but also to the care with which every detail was planned and executed, and the pains which the director of the New York State Geological Survey and his staff took to provide for the comfort and pleasure of the party.

This report was written at the request of the busy secretary of the association, Dr. W. O. Hotchkiss, by the undersigned guest of the association.

HERDMAN F. CLELAND

WILLIAMSTOWN, MASS.

THE NEWCASTLE MEETING OF THE BRITISH ASSOCIATION

WE learn from the account of the meeting in *Nature*, that the attendance was 626, the smallest since the first meeting held in York in 1831. It is said, however, that the attendance at the meetings of the sections was quite up to the average.

The general committee adopted a recommendation of the council that research committees should have power to report through organizing committees of sections to the council at any time when the association is not in annual session. Hitherto research committees have had to await the annual meeting before presenting their reports, even when their conclusions call for early action. Under the new rules this will no longer be necessary if the organizing committee to which a research committee presents its report considers it desirable to report direct to the council. Another alteration of the rules of the association makes it possible for the council to include upon research committees persons who are not members of the association, but "whose assistance may be regarded as of special importance to the research undertaken."

The general treasurer has reported to the council that Mr. M. Deshumbert proposed to leave a legacy of about £5,000 to the associa-

tion, subject to the condition that his wife and her sister should receive the interest during their lifetime.

The new members of council elected by the general committee are Mr. R. A. Gregory, Dr. S. F. Harmer, Dr. E. J. Russell, Dr. A. Strahan and Professor W. R. Scott. An invitation to meet in Cardiff in 1918 was unanimously and gratefully accepted by the committee.

The total grants of money appropriated by the general committee for purposes of research committees proposed by the various sections amounted to £602. The subjects and grants are as follows:

Section A.—Seismological observations, £100; annual tables of constants, £40; mathematical tables, £20; gravity at sea, £10.

Section B.—Dynamic isomerism, £15; Eucalypts, £30; absorption spectra, etc., of organic compounds, £10.

Section C.—Red Sandstone rocks of Kiltorecan, £4; Paleozoic rocks, £20.

Section D.—Biology of the Abrolhos Islands, £6; inheritance in silkworms, £20.

Section F.—Fatigue from an economic point of view, £40; replacement of men by women in industry, £20; effects of war on credit, etc., £10.

Section G.—Stress distributions, £40.

Section H.—Artificial islands in the lochs of the Highlands of Scotland, £5; physical characters of ancient Egyptians, £2, 12s. (unexpended balance); Paleolithic site in Jersey, £30; excavations in Malta, £20; distribution of Bronze age implements, £1, 14s. (unexpended balance).

Section I.—Ductless glands, £15; psychological war research, £10.

Section K.—Physiology of heredity, £45; ecology of fungi, £8.

Section L.—School book and eyesight, £5; work of museums in education and research, £15; effects of "free-place" system upon education, £15; science teaching in secondary schools, £10; mental and physical factors involved in education, £10.

Corresponding Societies' Committee.—For preparation of report, £25.

SCIENTIFIC NOTES AND NEWS

SIR CHARLES PARSONS, the engineer, has been elected president of the British Association for the meeting to be held at Bournemouth in September next.

THE executive committee of the Pacific Division of the American Association for the Advancement of Science has elected Dr. John Casper Branner, president emeritus of Stanford University, as president of the division for the year 1916-17. The executive committee includes in addition to the president of the division, the vice-president, Dr. D. T. MacDougal, director of the department of botanical research, Carnegie Institution of Washington, Tucson, Arizona, who is chairman of the committee, and the following elected members: E. C. Franklin, professor of chemistry, Stanford University; T. C. Frye, professor of botany, University of Washington, Seattle; C. E. Grunsky, consulting engineer and former member of the Panama Canal Commission, San Francisco; G. E. Hale, director of the Mount Wilson Solar Observatory, Carnegie Institution of Washington, Pasadena; V. L. Kellogg, professor of entomology, Stanford University, now with the commission for relief in Belgium, Brussels; A. C. Lawson, professor of mineralogy and geology, University of California; and E. P. Lewis, professor of physics, University of California.

THE American Chemical Society will hold an adjourned meeting in affiliation with the American Association for the Advancement of Science in New York City during convocation week. The society originally planned to meet with the association at that time, but finally decided that it was best to meet simultaneously with the National Exposition of Chemical Industries, which it was necessary to hold in September. The next annual meeting of the society will be held in Boston in September, 1917. Dr. E. G. Love, of New York City, has been elected treasurer of the society, to succeed Dr. A. B. Hallock, who has acted as treasurer for the past twenty-five years. Dr. Charles H. Herty, head of the department of chemistry in the University of North Carolina and the present president of the American Chemical Society, has been elected editor and manager of the *Journal of Industrial and Engineering Chemistry*. Dr. Herty will take up this work in New York

City on January 1. The journal has hitherto been edited by Professor M. C. Whittaker, in charge of industrial chemistry at Columbia University, who is unable to give his entire time to the work.

WE learn from *Nature* that the fourth annual meeting of the Indian Science Congress will be held at Bangalore on January 10-13, with Sir Alfred Bourne as president. The following sectional presidents have been appointed: Mr. J. MacKenna (Pusa), agriculture and applied chemistry; the Rev. D. Mackichan (Bombay), physics; Dr. Zia Uddin Ahmad (Aligarh), mathematics; Dr. J. L. Simonsen (Madras), chemistry; Mr. K. Ramunni Menon (Madras), zoology; Mr. C. S. Middlemiss (Calcutta), geology.

PROFESSOR J. G. SANDERS, the newly appointed Pennsylvania State Economic Zoologist, has begun his work. He has been visiting the agricultural region with Governor Brumbaugh and has taken up the reorganization of his division.

DR. WILLIAM H. DAVIS, of Boston, has been appointed chief statistician, division of vital statistics, United States Bureau of the Census. Dr. Davis has been the vital statistician of the Boston Health Department for some years, and was appointed to his present office on the basis of a civil service examination.

DR. SIDNEY D. JONES has been placed in charge of the Fort Dodge (Iowa) Clinical and Roentgen-Ray Laboratory, succeeding Dr. Thomas H. Glenn.

DR. WALTER DILL SCOTT, professor of psychology at Northwestern University, is on leave of absence for the current year acting as director of the Bureau of Salesmanship Research in the Carnegie Institute of Technology, Pittsburgh, Pa.

PROFESSOR GEORGE H. WHIPPLE, professor of sanitary engineering at the Massachusetts Institute of Technology and secretary of the School for Health Officers, has been retained by the New York State Board of Health as scientific adviser in the matter of the garbage nuisance on Staten Island. Here the plant of a private contractor was licensed and

erected despite the protests of the citizens, and on an appeal to the state an investigation was set on foot. Professor Whipple is associated with Theodore H. Horton, chief engineer of the state department.

Nature reports that the king in council has appointed Mr. Arthur Henderson, M.P., a member of the committee of the privy council for the organization and development of scientific and industrial research. The other non-official members of the committee are Lord Haldane, the Right Hon. A. H. D. Acland, and the Right Hon. J. A. Pease, M.P. Mr. Henderson was the president of the board of education when the government's research scheme was published in July of last year. As such he was a member of the committee, which includes also, as official members, the lord president of the privy council, the chancellor of the exchequer, the secretary for Scotland, the president of the board of trade, and the chief secretary for Ireland.

PROFESSOR C. T. BRUES, of the Bussey Institution, Harvard University, has been investigating the possible rôle of insects in the transmission of infantile paralysis during the epidemic of this disease in New York City. These studies are being carried on under the auspices of the New York city board of health.

GENERAL W. C. GORGAS, U. S. A., chairman of the Yellow Fever Commission of the Rockefeller Foundation, with other members of the commission arrived in New York last week, from San Juan. The commission visited Chile, Bolivia, Peru, Ecuador and Panama and was obliged to return to New York to take a steamship for Para, Rio de Janeiro and Santos. Besides General Gorgas, who got four months' leave of absence from the army to aid the investigation, the commission includes Dr. Henry R. Carter, United States Public Health Service, clinician; Dr. Juan Guiteras, head of Public Health Service of Cuba, clinician and general adviser; Dr. C. C. Lyster, clinician; Dr. Eugene R. Whitmore, pathologist, and Dr. William D. Wrightson, sanitation engineer.

SIR ERNEST SHACKLETON is said to be now hastening the settlement of matters in connection with the Weddell Sea party of his expedition so as to get over to Australia at the earliest possible moment. Through the generosity of the commonwealth and New Zealand governments the *Aurora* is being repaired and refitted to go south to rescue the ten men of Lieutenant Mackintosh's party marooned at the Ross Sea base.

DR. J. N. ROSE, of the Carnegie Institution of Washington, left on October 4 for another trip to the deserts of South America. This time he will visit the coasts of Venezuela, where many new species of cactuses have been collected and described.

DR. CHRISTEN LUNDSGAARD left Copenhagen on September 21 for New York. He is the first Danish physician to receive an allowance from the Niels Poulsen American-Scandinavian Foundation. He will study at the Rockefeller Institute and later will travel and pursue research work at other institutions in the United States.

At Harvard University an "Infantile Paralysis Commission" for the treatment and study of infantile paralysis has been appointed consisting of Robert Williamson Lovett, A.B., M.D., chairman, professor of orthopedic surgery; Milton Joseph Rosenau, M.D., A.M., professor of preventive medicine and hygiene; Francis Weld Peabody, A.B., M.D., assistant professor of medicine, and Roger Pierce, A.B., secretary.

THE annual autumn meeting of the British Institute of Metals was held on September 20, in the rooms of the Chemical Society, London, Sir George T. Beilby presiding.

A MEMORIAL research laboratory is proposed to the memory of Dr. Earl C. Peck, first assistant resident physician at the Philadelphia Hospital for Contagious Diseases, who died recently from anterior poliomyelitis.

A BIOGRAPHY of the late Professor James Geikie, of Edinburgh University, is in course of preparation, and it would be a great favor if those who have letters or communications of general interest from him would forward

these to Dr. Marion Newbigin, Royal Scottish Geographical Society, Synod Hall, Castle Terrace, Edinburgh. They would be carefully preserved, and returned after being copied. Correspondence is also invited from American men of science and others who came into contact with Professor Geikie in the course of his visits to the states.

DR. C. T. CLOUGH, for forty years a member of the British Geological Survey, died on August 27, having been run over by a train while examining rock explosives in Scotland.

PROFESSOR H. MOHN, the meteorologist, of Christiania, died on September 12, at eighty years of age.

ERIC WARR SIMMONS, a recent graduate of University College, London, a geologist of promise, has been killed in the war.

DR. FERDINAND FISCHER, professor of chemical technology in the University of Göttingen, has died at the age of seventy-four years.

HENRI FISCHER, the French student of malacology, has died at the age of fifty years.

THE death is announced at the age of sixty-one years of Dr. Francesco Bassani, professor of geology in the University of Naples.

THE Hospital for Deformities and Joint Diseases, New York, has received from Mr. Herbert Kauffman, of Pittsburgh, through Dr. H. D. Frauenthal, a gift of one million dollars, to be used for the erection of a new building and as an endowment fund.

BEFORE the Tax Budget Committee of the New York City Board of Estimate it was reported that the attendance at the Metropolitan Museum of Art for the year ending June 30, 1916, was 635,206, as against 778,024 for the previous year. The paid admissions for 1916 were 31,617, as against 40,311. The committee voted \$200,000, the same amount as last year, although the request was for \$250,000. On the other hand, the American Museum of Natural History showed an increase in attendance, and Cleveland H. Dodge, appearing for the trustees, said this was due to school teachers taking their classes to the

museum. The attendance for the year ended June 30 was 870,000, as against 664,215 for 1915. Last year the museum received \$212,999, and this year requested \$222,000, but only \$212,700 was recommended.

THE following resolution was unanimously passed at the Dyestuff Conference held during the meeting of the American Chemical Society on Tuesday afternoon in Rumford Hall, the hall being crowded to its utmost capacity.

WHEREAS, the revenue bill (title, V. Dyestuffs) which recently passed the Senate after hearings of representatives of producers and consumers, accorded to *all* classes of dyestuffs without exception an ad valorem duty of 30 per cent. and a specific duty of five cents per pound, and

WHEREAS, in the final conference between the House Ways and Means Committee, and the Finance Committee of the Senate, and without further hearings, "Natural and Synthetic Alizarin and Dyes Obtained from Alizarin, Anthracene and Carbazol, Natural and Synthetic Indigo and All Indigoides whether or not obtained from Indigo, and Medicinals and Flavors" were made exceptions and to carry no specific duty and to have only the 30 per cent. ad valorem duty. The Dyestuff Conference of the American Chemical Society, in a meeting held in New York, September 27, without a single dissenting vote, condemns the exception of these dyestuffs from this specific duty, as this exception undermines the very foundation upon which it was hoped that the American dyestuff industry might be built. It makes it impossible for the American manufacturer to meet the requirements of this Bill "if, at the expiration of five years from the date of the passage of the Act, the President finds that there is not being manufactured or produced within the United States as much as 60 per cent. in value of the domestic consumption of these articles, he shall by proclamation so declare, whereupon the special duty imposed by the Section on such articles shall no longer be assessed, levied, or collected."

AND WHEREAS the value of these excepted classes of dyes amounts to approximately 30 per cent. of the dyes consumed in the U. S. A., without considering the dyes patented by foreign manufacturers,

Therefore be it resolved, that we condemn the removal of these dyestuffs from the special tariff accorded to them by the Senate as detrimental to the establishment and development of the Ameri-

can dyestuff industry and subversive of the best interests of the American people.

UNIVERSITY AND EDUCATIONAL NEWS

At the September meeting of the Yale Corporation the treasurer reported further distribution of about \$685,000 from the estate of the late Justus S. Hotchkiss of New Haven. Other gifts include approximately \$10,000 additional for the Hepsa Ely Silliman Lectureship Fund, from the estate of the late Augustus E. Silliman; \$15,000 for the Charles W. Goodyear Memorial Scholarship Fund in the School of Forestry; and \$5,000 more from Mrs. Helen Newberry Joy and Messrs. John S. and Truman Newberry for the work of rebuilding and enlarging the Newberry organ in Woolsey Hall.

THE *Journal* of the American Medical Association announces that one of the final transactions of the merger of the medical school of the University of Pennsylvania, the Medico-Chirurgical College, and Jefferson Medical College was consummated, September 21, when the real estate holdings of the Medico-Chirurgical College were transferred to the trustees of the university. The college buildings, assessed at \$375,550, and two four-story houses, assessed at a total of \$54,000, were conveyed for a nominal consideration. These will eventually be conveyed to the city by the university and the buildings demolished, as they are in the line of the new parkway.

THE department of botany of the Massachusetts Agricultural College and Experiment Station has been reorganized with the following personnel: A. Vincent Osmun, professor and head of the department; George H. Chapman, research physiologist; P. J. Anderson, associate professor and associate pathologist; Orton L. Clark, assistant professor and assistant physiologist; F. A. McLaughlin, instructor; G. W. Martin, instructor.

TUFTS MEDICAL SCHOOL announces several changes in the faculty. Andrew H. Ryan, M.D. (Washington University), will take charge of the department of physiology.

Charles H. Baily, M.D. (Harvard), has been made associate professor of histology. R. Harmon Ashley, Ph.D. (Yale), will take charge of the department of chemistry in the dental and pre-medical school. Arthur L. Chute, M.D., has been advanced from assistant professor to associate professor of surgery, and Gilmore C. Dickey, D.M.D., from instructor to assistant professor of crown and bridge work.

NORTHWESTERN UNIVERSITY has appointed the following instructors: In the department of mathematics: Rutherford Erwin Gleason, B.A., Charles Edwin Wilder, Ph.D., Frank Edwin Wood, B.A., and Irwin Romans, M.A.; in the department of chemistry: Martin William Lisse, M.S. (University of Washington), and Wallace Jennings Murray, Sc.D. (Geneva, Switzerland), instructors in chemistry; Louis Wade Currier, B.S. (Mass. Tech.), instructor in mining and metallurgy. The following promotions have also been made: George Vest McCauley, Ph.D. (Wisconsin), becomes assistant professor of physics, and Chester Henry Yeaton, Ph.D. (Chicago), assistant professor of mathematics. Henry Andrews Babcock, Ph.D. (Northwestern), has been appointed an instructor in physics.

FREDERICK LYONS BROWN, of Northwestern University, has been appointed instructor in astronomy for the Dearborn Observatory.

DR. S. MORGULIS, of the department of physiological chemistry, college of physicians and surgeons, Columbia University, has been appointed professor of physiology in the Creighton University Medical College, Omaha, Nebraska.

UNDER the general direction of Mr. A. G. Perkin, who is a son of Sir W. H. Perkin and brother of Professor Perkin, of Oxford, a new staff has been appointed to the dyeing department of the University of Leeds. Some of the members will give special attention to the exclusive requirements of British Dyes (Limited), but most of them will devote their services to work which may best meet the needs of other firms. In addition to the scien-